

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Original) A circuit design support method for instructing a computer to execute a program describing an iterative calculation equation of the Newton method including the Jacobi matrix to thereby calculate a circuit element value of an analog electronic circuit to be designed, wherein the program describing the calculation equation in which an approximate equation is substituted for a partial differentiation that is an element of the Jacobi matrix is used, and the element as an object of the partial differentiation of the Jacobi matrix is obtained from a waveform observed in response to a circuit configuration of the analog electronic circuit.

2. (Original) The circuit design support method according to claim 1, wherein a steady state of the analog electronic circuit is obtained simultaneously with the calculation of the circuit element value.

3. (Currently Amended) The circuit design support method according to claim 1 ~~or claim 2~~, wherein statistical data are provided as a constraint condition of the analog electronic circuit.

4. (Original) A circuit design support implement for executing a program describing an iterative calculation equation of the Newton method including the Jacobi matrix to thereby calculate a circuit element value of an analog electronic circuit to be designed, wherein the

program describing the calculation equation in which an approximate equation is substituted for a partial differentiation that is an element of the Jacobi matrix is used, and the element as an object of the partial differentiation of the Jacobi matrix is obtained from a waveform observed in response to a circuit configuration of the analog electronic circuit.

5. (Original) The circuit design support implement according to claim 4, wherein a steady state of the analog electronic circuit is obtained simultaneously with the calculation of the circuit element value.

6. (Currently Amended) The circuit design support implement according to claim 4 ~~or claim 5~~, wherein statistical data are provided as a constraint condition of the analog electronic circuit.

7. (Original) A circuit design support program for instructing a computer to calculate an iterative calculation equation of the Newton method including the Jacobi matrix to thereby calculate a circuit element value of an analog electronic circuit to be designed, wherein the calculation equation in which an approximate equation is substituted for a partial differentiation that is an element of the Jacobi matrix is used, and the element as an object of the partial differentiation of the Jacobi matrix is obtained from a waveform observed in response to a circuit configuration of the analog electronic circuit.

8. (Original) The circuit design support program according to claim 7, wherein a steady state of the analog electronic circuit is obtained simultaneously with the calculation of the circuit element value.

9. (Currently Amended) The circuit design support program according to claim 7 ~~or~~  
~~claim 8~~, wherein statistical data are provided as a constraint condition of the analog electronic  
circuit.